

Abstract

In a regenerator to be formed by winding a resin film into a cylindrical shape, a projection is formed on a surface of the resin film by subjecting the resin film in itself to plastic deformation, either by stamping or by laser beam irradiation. Thereafter, the resin film is stacked. The projection provides a gap between layers of the stacked resin film to be a flow passage for a working gas. Thus, a regenerator of high heat exchange efficiency is provided with ease and at low cost.